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... and all possible queries on objects **stored** in the ... of values for the Has-advisor **mapping** was previously ... basic operations" in specific using the **RETRIEVE**, PICK-D ...

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... in a data dictionary is normally **stored** as a ... wide which demonstrates its value as a **mapping** device within ... to effectively describe and later **retrieve** information ...

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XML News in 2000

... to specify where the output document will be **stored**. ... This Note specifies such a **mapping**,

so that links can ... adds support for fo:marker and fo:retrieve-marker as ...

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... will be built to disseminate **inforamtion** concerning integrated ... So the project intends to get a better ... the water sector across Europe by **mapping** the development ...

[www.watertime.net/Docs/WP6/ Related%20Projects%20Overview%20-%20Sep%202003.doc](http://www.watertime.net/Docs/WP6/Related%20Projects%20Overview%20-%20Sep%202003.doc) - [Similar pages](#)

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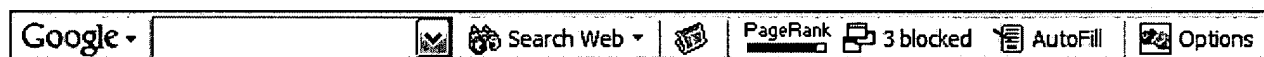
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1 [WSQ/DSQ: a practical approach for combined querying of databases and the Web](#)

Roy Goldman, Jennifer Widom

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available: [pdf\(223.65 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web searches to enhance SQL queries over a relational database. DS for *Database-Supported (Web) Queries*, uses information stored in the database to enhance and explain Web searches. This paper focuses primarily on WSQ, describing a simple, low-cost approach.

2 [Federated database systems for managing distributed, heterogeneous, and autonomous databases](#)

Amit P. Sheth, James A. Larson

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Full text available: [pdf\(5.02 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [related items](#)

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial communication patterns.

4 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [re](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithm accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processing ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

5 Heterogeneous distributed database systems for production use

Gomer Thomas, Glenn R. Thompson, Chin-Wan Chung, Edward Barkmeyer, Fred Carter, Marjorie Temple, Stephen Fox, Berl Hartman

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Full text available:  pdf(2.90 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [re](#)

It is increasingly important for organizations to achieve additional coordination of diverse computerized operations. To do so, it is necessary to have database systems that can operate over a distributed network and can encompass a heterogeneous mix of computers, operating systems, communications links, and local database management systems. This paper outlines approaches to various aspects of heterogeneous distributed data management and describes the characteristics and architectures of ..

6 DATAPLEX: an access to heterogeneous distributed databases

Chin-Wan Chung

January 1990 **Communications of the ACM**, Volume 33 Issue 1

Full text available:  pdf(1.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [re](#)

Diverse database management systems are used in large organizations. The heterogeneous distributed database system (DDS) can provide a flexible integration of diverse databases for users and applications. This is because it allows for retrieval and update of distributed data under different data systems giving the illusion of accessing a single centralized database system.

Keywords: Prototype system

7 The model-assisted global query system for multiple databases in distributed enterprises

Waiman Cheung, Cheng Hsu

October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4

Full text available:  pdf(697.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system capable of providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages and ha ...

8 Building efficient and effective metasearch engines

Wei-Yi Meng, Clement Yu, King-Lup Liu

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available:  pdf(416.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Frequently a user's information needs are stored in the databases of multiple search engines. It is


inconvenient and inefficient for an ordinary user to invoke multiple search engines and identify useful documents from the returned results. To support unified access to multiple search engines, a metasearch engine can be constructed. When a metasearch engine receives a query from a user, it invokes the underlying search engines to retrieve useful information for the user. Metasearch engines have ...

Keywords: Collection fusion, distributed collection, distributed information retrieval, information res discovery, metasearch

9 Integrating and customizing heterogeneous e-commerce applications

Anat Eyal, Tova Milo

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10
1

Full text available:  [pdf\(286.63 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)


A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, m business opportunities emerge for providing new services based on the integration and customization existing applications. (Web shopping malls and support for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

Keywords: Application integration, Data integration, Electronic commerce

10 Session 5B: mobile software agents: ACQUIRE: agent-based complex query and information retrieval engine

Subrata Das, Kurt Shuster, Curt Wu

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**

Full text available:  [pdf\(1.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The heterogeneous, distributive and voluminous nature of many government and corporate data sou impose severe constraints on meeting the diverse requirements of users who analyze the data. Additionally, communication bandwidth limitations, time constraints, and multiplicity of data formats impose further restrictions on users of these distributed data sources. What is required is a reliable, robust, and efficient data retrieval technique that can access data from distributed data sources whi .

Keywords: distributed data sources, information retrieval, interface agent, mobile agents, softbot

11 Interconnecting heterogeneous computer systems

David Notkin, Andrew P. Black, Edward D. Lazowska, Henry M. Levy, Jan Sanislo, John Zahorjan

March 1988 **Communications of the ACM**, Volume 31 Issue 3

Full text available:  [pdf\(1.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A software structure created by the Heterogeneous Computer Systems (HCS) Project at the Universit Washington was designed to address the problems of heterogeneity that typically arise in research computing environments.

12 Evaluating the performance of distributed architectures for information retrieval using a variety workloads

Brendon Cahoon, Kathryn S. McKinley, Zhihong Lu

January 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 1

Full text available:  [pdf\(254.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The information explosion across the Internet and elsewhere offers access to an increasing number of

document collections. In order for users to effectively access these collections, information retrieval (systems must provide coordinated, concurrent, and distributed access. In this article, we explore how achieve scalable performance in a distributed system for collection sizes ranging from 1GB to 128GB. implement a fully functional distributed IR system based on a multithreaded v ...

Keywords: distributed information retrieval architectures

13 Predicate rewriting for translating Boolean queries in a heterogeneous information system

Chen-Chuan K. Chang, Héctor García-Molina, Andreas Paepcke

January 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 1

Full text available:  pdf(350.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Searching over heterogeneous information sources is difficult in part because of the nonuniform query languages. Our approach is to allow users to compose Boolean queries in one rich front-end language each user query and target source, we transform the user query into a subsuming query that can be supported by the source but that may return extra documents. The results are then processed by a filter query to yield the correct final results. In this article we introduce the architecture ...

Keywords: Boolean queries, content-based retrieval, filtering, predicate rewriting, query subsumption, query translation

14 Complex relationships and knowledge discovery support in the InfoQuilt system

A. Sheth, S. Thacker, S. Patel

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Full text available:  pdf(596.98 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Support for semantic content is becoming more common in Web-accessible information systems. With this support emerging with the use of ontologies and machine-readable, annotated documents. The practice of domain modeling coupled with the extraction of domain-specific, contextually relevant metadata also supports the use of semantics. These advancements enable knowledge discovery approaches that define complex relationships between data that is autonomously collected and managed. The InfoQuilt ...

15 Distributed systems - programming and management: On remote procedure call

Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

Full text available:  pdf(4.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of its future ...

16 Query Optimization in Database Systems

Matthias Jarke, Jürgen Koch

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available:  pdf(2.84 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Heraclitus: elevating deltas to be first-class citizens in a database programming language

Shahram Ghandeharizadeh, Richard Hull, Dean Jacobs

September 1996 **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 3

Full text available:  pdf(3.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [re](#)

Traditional database systems provide a user with the ability to query and manipulate one database state namely the current database state. However, in several emerging applications, the ability to analyze "what-if" scenarios in order to reason about the impact of an update (before committing that update) is of paramount importance. Example applications include hypothetical database access, active database management systems, and version management, to name a few. The central th ...

Keywords: active databases, deltas, execution model for rule application, hypothetical access, hypothetical database state

18 A semisupervised learning method to merge search engine results

Luo Si, Jamie Callan

October 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 4

Full text available:  pdf(463.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The proliferation of searchable text databases on local area networks and the Internet causes the problem of finding information that may be distributed among many disjoint text databases (*distributed information retrieval*). How to merge the results returned by selected databases is an important subproblem of the distributed information retrieval task. Previous research assumed that either resource providers cooperate to provide normalizing statistics or search clients download all retrieved ...

Keywords: Distributed information retrieval, resource ranking, resource selection, results merging, semisupervised learning method, server selection

19 Early user---system interaction for database selection in massive domain-specific online environments

Jack G. Conrad, Joanne R. S. Claussen

January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available:  pdf(845.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies including reliance upon thresholds below which databases with relevant documents are not searched ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

20 Query-based sampling of text databases

Jamie Callan, Margaret Connell

April 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 2

Full text available:  pdf(197.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The proliferation of searchable text databases on corporate networks and the Internet causes a database selection problem for many people. Algorithms such as gGLOSS and CORI can automatically select which text databases to search for a given information need, but only if given a set of resource descriptions that accurately represent the contents of each database. The existing techniques for acquiring resource descriptions have significant limitations when used in wide-area networks controlled ...

Keywords: distributed information retrieval, query-based sampling, resource ranking, resource selection, server selection

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Inventors (please provide full names): Gregory Zoller, Samir Mehta, Steven Fisher,
Raj Kumar

Earliest Priority Filing Date: 12/7/00

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Application is in IFW, please retrieve to see amendment claim
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